



WELCOME TO THE ST. CHARLES PARISH DEPARTMENT OF

## ***Public Works and Wastewater***

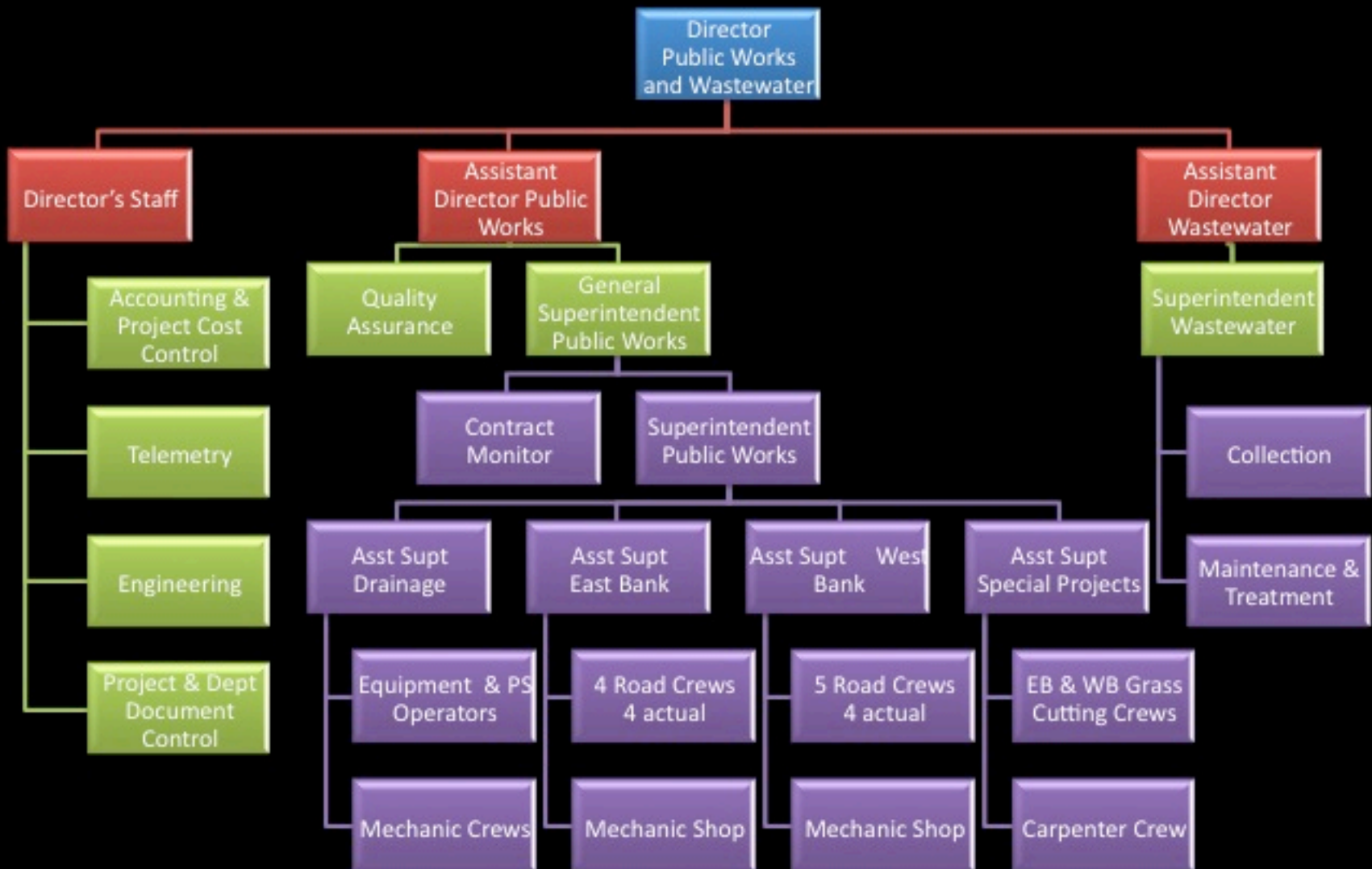
The St. Charles Parish Public Works Department's mission is to provide the best possible roads and storm drainage systems to ensure the safety and security of the Parish residents and their property.



## Public Works Maintains and Improves Critical Parish Wide Infrastructure: Roads, Storm Water Pumping Network, and Grass Cutting of Parish Property and Right of Ways

- Public Works maintains over **213** miles of roads of varying surfaces such as concrete, asphalt, and limestone.
- Public Works maintains over **390** miles of drainage ditches/ sub surface drainage and over **50** miles of major conveyance canals.
- Public works maintains and implements improvements to our **52** pumping stations.
- St Charles Parish pumping network consists of **130** pumps (electric, diesel, natural gas, and hydraulic) with capacity of over **3.5** million gallons per minute.
- **19** of our pumping stations are equipped with telemetry.

# SCP Public Works and Wastewater







## WELCOME TO THE ST. CHARLES PARISH DEPARTMENT OF **Public Works and Wastewater**

### **Initial assessment - \$150 Million in critical drainage improvements**

- \$49 Million in projects under construction and in engineering design
- \$20-25 Million funded; \$14 million pending grants; \$15-\$20 million not funded
- Rain Events
  - In a 12 month period- April 08 thru April 09- five major rain events
    - 4-6 inches of rain- 3 times in Ormond area
    - 4-6 inches of rain- Hahnville area
    - 4-6 inches of rain- Montz and St. Rose
    - 4-6 inches of rain Des Allemands, Bayou Gauche, Luling, Coronado, Mimosa, Willowdale, Willowridge
- Historic Flooding
  - The greatest amount historic flooding is on the East Bank and associated with major rain events, not wind events.
  - The historic flooding on the West Bank associated with major rain events



# Accomplishments Last 12 Months

<u>Projects Completed</u>	<u>Const Cost</u>	<u>Grant</u>
Dunleith Canal Stabilization - Phase II	1,393,041	
Dunleith Sheet Pile Anchors	79,414	
2012 Road Maintenance	1,586,312	
Carriage Lane Emergency Project	501,362	
Montz MDP – Improve KCS Canal	1,133,396	
Norco 5th Street -Sidewalk Impv	338,977	190,727
Bike Path WB Levee Ph III - Diversion to JP Line	797,772	757,883
	<hr/>	<hr/>
<b>TOTAL</b>	<b>5,830,274</b>	<b>948,610</b>



# Accomplishments Last 12 Months

<u>Projects Under Construction</u>	<u>Contract Amt</u>	<u>Grant</u>	<u>% Comp</u>
Community Center Project	10,565,980	7,948,266	95%
Bike Path EB Levee Ph IV Apple to Spillway	907,540	865,000	95%
Bike Path EB Levee Ph V Harding to Apple	379,809	375,000	95%
Dunleith Canal Stabilization – Phase III	1,018,627		20%
Dunleith Recharge System	181,419		10%
Upgrade to Ashton Pump Station / Force Main	956,542		95%
Luling Sanitary Sewer Rehab	847,975	800,000	45%
2013 Road Maintenance (Award Process)	1,442,367		0%
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<b>TOTAL</b>	<b>16,300,259</b>	<b>9,988,266</b>	



# Accomplishments Last 12 Months

## Projects in Final Design

## Est Const Cost

## Grant Application

### West Bank Hurricane Levee & Pump Stations:

• Willowridge - Phase II	29,000,000	15,049,804
Bike Path East Bank – Phase VI	1,025,000	973,750
Coronado Park PS # 1 (Bid Award)	1,177,164	708,637
Primrose Canal - Box Culverts	1,516,038	1,137,029
Public Works Window Retrofit (Bid Award)	124,432	93,324
Anna & Ama Pump Stations (SRL Loan)	224,100	
CC1 Lift Station Upgrade (SRF Loan)	685,000	
Cajun Paradise Compliance Order (Permit Rec)		
(Potential Remediation of Fine)	-----	-----
<b>TOTAL</b>		<b>33,751,734</b>
<b>17,962,544</b>		





# Accomplishments Last 12 Months

## Projects in Preliminary Design

## Est Const Cost

## Grant Application

### West Bank Hurricane Levee & Pump Stations:

• Ellington - Phase III	62,000,000	13,189,500
• Magnolia Ridge - Phase I	59,000,000	
• Sunset Drainage Pump Station	1,028,380	561,199
• Sunset Building Rehab	500,000	

Mimosa Lane Culvert Replacement	226,540	226,540
Mimosa Drainage Improvements	800,000	558,825
Montz MDP – Improve/Realign Coulee	500,000	
Oakland & Fairfield PS Improvements	886,000	
Randolph Pump Station - Bar Screen Cleaner	1,200,000	1,081,259
River Bend Drainage Improvements	1,500,000	

Continued on next slide





# Accomplishments Last 12 Months

<u>Projects in Preliminary Design (Continued)</u>	<u>Est Const Cost</u>	<u>Grant Application</u>
Subtotal from previous slide	127,640,920	15,617,323
Cortez Pump Station Improvements	500,000	500,000
Cousins PS Upgrade, Repair leaking Discharge	350,000	
Hahn St Drainage Improvements	604,200	
Reshape Carriage & Dunleith Canal Intersection	300,000	
Spillway Road Culvert Improvements	500,000	
Ormond Blvd Overlay	4,569,650	3,112,000
	-----	-----
<b>TOTAL Projects in Preliminary Design</b>	<b>134,464,770</b>	<b>19,229,323</b>



# Accomplishments Last 12 Months

## Roads and Drainage

- 1,044,281 ft of ditches cleaned
- 48,085 ft of culverts cleaned/blown out
- 3,451 ft of undersized/damaged culverts replaced
- 31 Miles or 163,680 ft of canals cleaned
- 170 council requested work order completed
- 7,692 department work orders completed
- Routine maintenance of roadways, trees, and signs

## Telemetry

- 2 New Stations equipped with new telemetry and 1 existing station were upgraded



# WEST BANK LEVEE

- **Willowridge Levee**
  - First phase, elevation +5, is out to bid
  - Second phase, increase elevation to +7 and tie to Davis Diversion
  - Pump station is in final phase of design
- **Ellington Levee**
  - Permit complete
  - Preliminary design has started
  - Pump station-grant application
- **Magnolia Ridge Levee**
  - Permit pending
  - Pump station
  - Operation at +0 - +.5
  - No tidal gates



# WEST BANK LEVEE

- **Sunset Levee**
  - LBLD proceeding with state/CPRA alignment
  - LBLD/parish proceeding with the LAMP analysis
    - Will include other structures on the West bank
    - Shaw Coastal and BKI
      - Survey completed
      - Soil borings
  - BKI/parish proceeding with CLOMR
    - DA sheet pile wall
    - Hwy. 90 elevation
    - Early street levee
    - Evaluation of railroad
  - Pump station
    - PM of engines and pumps
    - Repair of building
    - Grant for 2 ea. 30 inch hydraulic pumps





# PARISH WIDE LEVEE

- **E/B Levee**
  - Raised to 100 year protection and Completed
  - Urban storm water study
    - 65%- 35% cost share
    - Approximately 40 potential projects
  - Design for 3rd Pump Station along Levee
- **W/B and Vicinity Levee- St. Charles Parish**
  - Completed
- **West Shore- Protection for Montz Area**
  - Corp feasibility study – public hearing
  - Corp Recommend Alignment “C” instead of Alignment “D”



PROJECTS  
COMPLETED AND  
UNDER  
CONSTRUCTION

# Dunleith Canal Sheet Pile





# Dunleith Canal Stabilization – Phase III

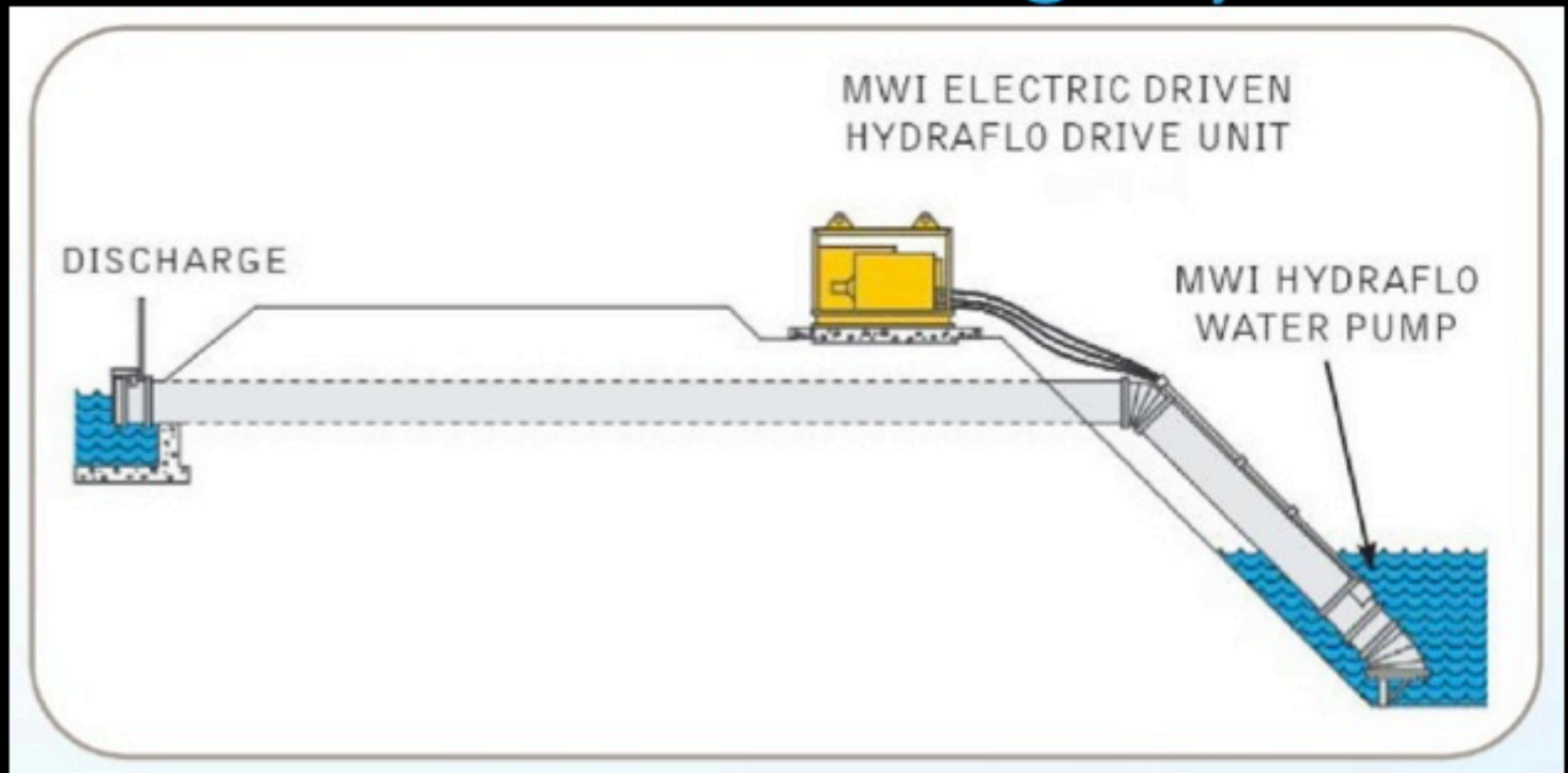




# Dunleith Sheet Pile Anchors



# Dunleith Canal Recharge System



During long periods of less than usual rainfall, the Dunleith Canal level drops to below normal controlled level. A system is needed to pump water from the discharge area of the Destrehan 1 Pump Station back into the Dunleith Canal to maintain normal levels. A 12" electric driven hydraulic pump is being installed to pump 4,000 gallons a minute from the discharge sump into the Dunleith canal system.



# Carriage Canal - Stanton Hall





# KCS Canal Upgrades





# Community Center Project



# Community Center Project



# **PUMP STATION IMPROVEMENT PROJECTS**



# Old Kellog PS Upgrade





# Drainage Pumps Refurbished



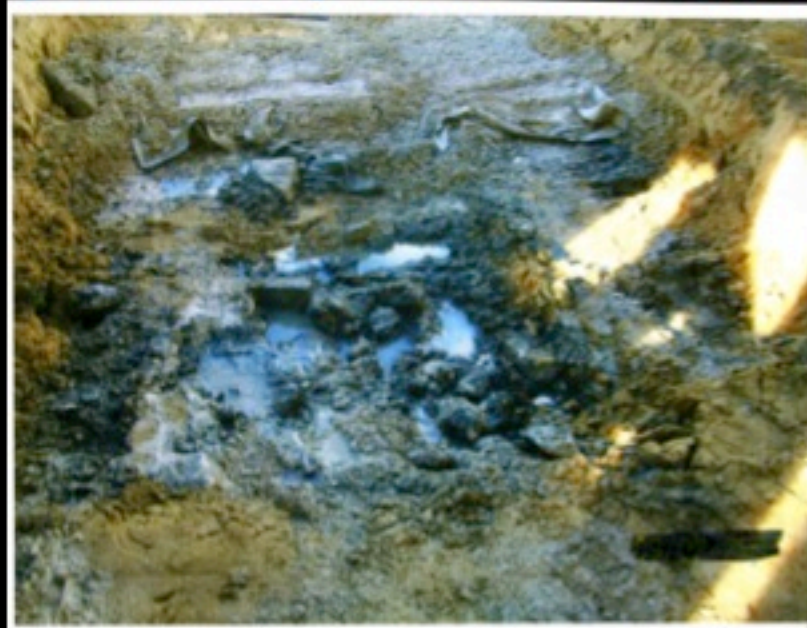
# Pump Engines Refurbished



**ROADS**



# Spillway Rail Trestle



# Spillway Levee Road Improvements



**2012  
ROAD  
MAINTENANCE**



# 2012 Road Maintenance



# 2012 Road Maintenance





# **DRAINAGE IMPROVEMENT PROJECTS**



# Cotton Canal Cleaning



# Coulee Canal Cleaning – Beaver Dams





# Hill Heights Ditch Cleaning





# CN Culvert Replacement in Destrehan





# Hwy 631 Des Allemands





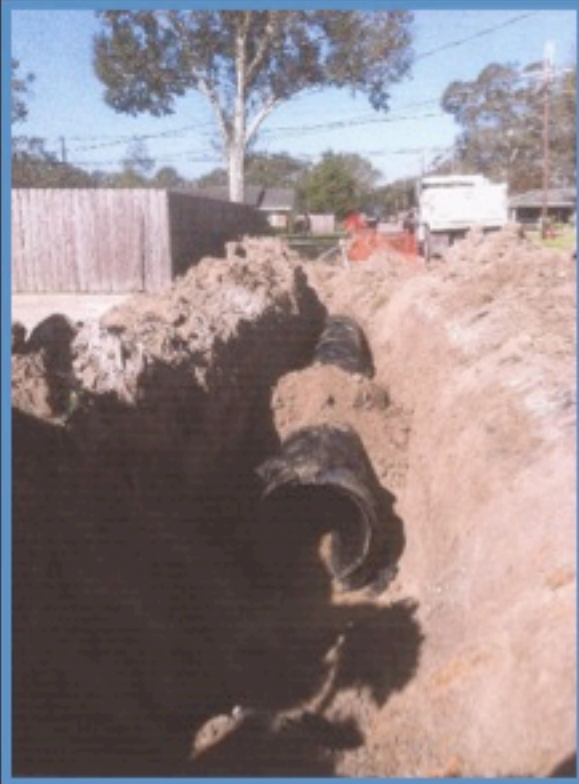
# Murray Hill Drainage Improvements

Draft





# 201 St John Street





# Barbara and 306





# Davis Pump Station





# Bayou Estates – Number 10 Canal



# Rex and Davis





# True Value Store





# Vial Lane



# **WASTEWATER PROJECTS**



# Ashton Sewer Forced Main





# LCDGB Luling Rehab



# OTHER SUPPORT PROJECTS



**EAST BANK  
BIKE PATHS  
and  
SIDEWALKS**

# East Bank Bike Path – Phase IV





# East Bank Bike Path – Phase V





# Sidewalks to Schools





**WEST BANK  
BIKE PATHS  
and  
SIDEWALKS**

# West Bank Bike Path – Phase III





# PUMP STATION GENERATORS

# Permanent Pump Station Generators

## 26 Pump Stations with Permanent Generators

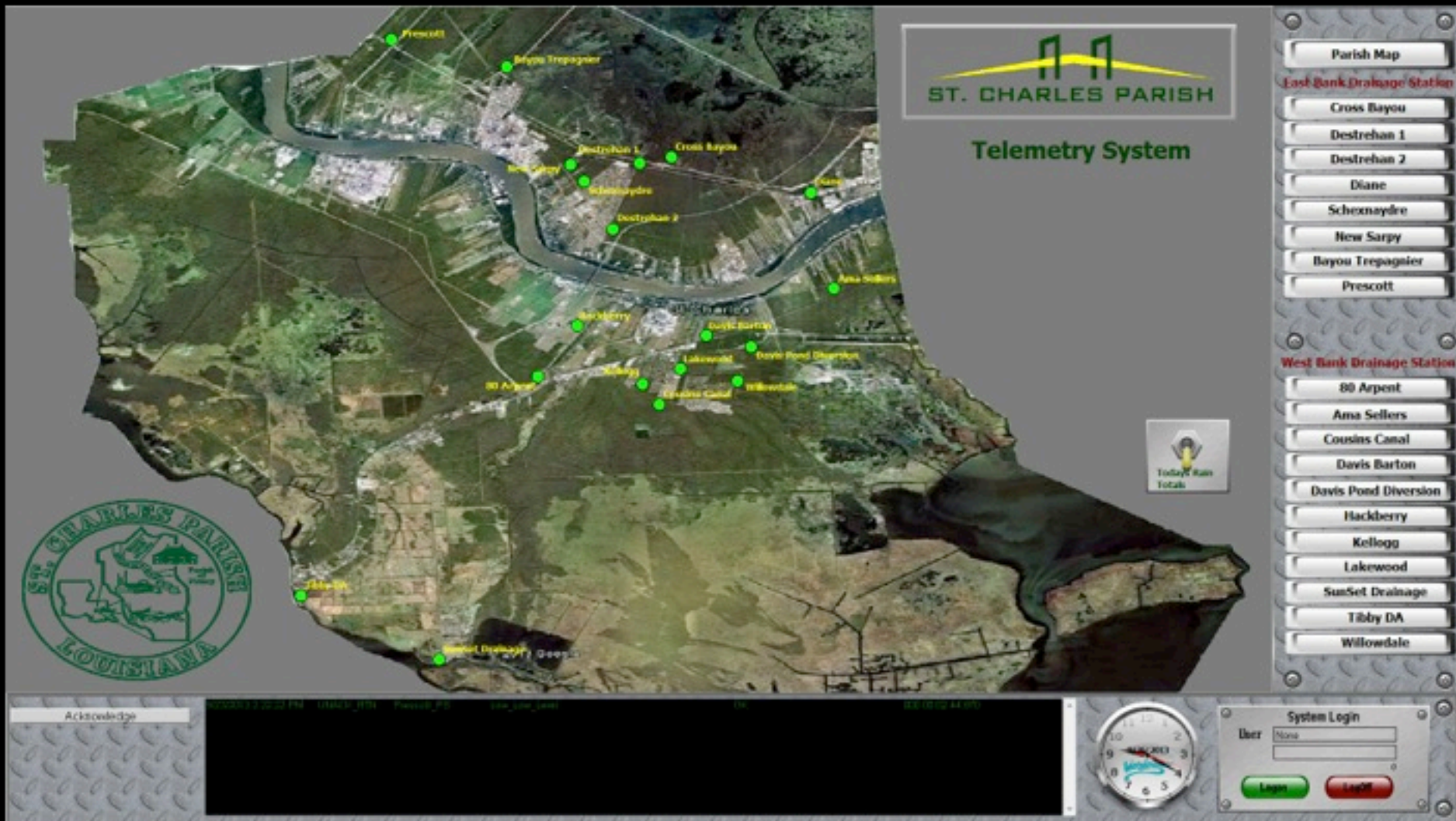
- 80 Arpent
- Bayou Trepagnier
- Boutte
- Coronado #2
- Cousins
- Cross Bayou
- Davis Barton SP
- Davis Pond
- Davis Sump SP
- Destrehan #1
- Destrehan #2
- Diane
- Diversion Structure
- Engineers (Upgrade) (1)
- Fairfield (1)
- Hackberry
- Kellogg
- Lagatutta
- Lakewood
- New Sarpy
- NOLA
- Oakland
- Paradis
- Randolph
- Up the Bayou
- Walker
- Willowdale

Note: (1) Generator installed 2012-2013



TELEMETRY

# Telemetry Control Screen





# Telemetry Upgrades 2012-2013

## East Bank Telemetry Stations

- Destrehan 1
- Destrehan 2
- Diane
- Cross Bayou **Install System w/Camera System 2013**
- New Sarpy
- Prescott **Install System w/Camera System 2013**
- Schexnaydre
- Trepagnier

## West Bank Telemetry Stations

- 80 Arpent **Bar Screens/Camera System added 2013**
- Ama Sellers
- Cousins
- Davis Barton
- Davis Pond
- Hackberry
- Kellogg
- Lakewood
- Sunset
- Tibby DA
- Willowdale

# Telemetry Upgrades - Future

## Planned Future Additions

- |                         |                      |
|-------------------------|----------------------|
| •Willowdale             | Total System upgrade |
| •Engineers              | New System           |
| •4 <sup>th</sup> Street | New System           |





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***Public Works and Wastewater***

# Contract Monitoring

## Steve Truitt

# Contract Monitoring

## Public Works Contract Monitor:

The Contract Monitor division of Public Works is responsible for the monitoring of Solid Waste, Special events such as storm debris and trash bash, Recycling, Street Lighting, and Mosquito Control.





# Contract Monitoring Trash Pick-up

# Contract Monitoring



***Solid  
Waste***

# Contract Monitoring

- **Solid Waste**  
(Progressive Waste Services)

- 5,600 service calls



- 2,750 cart services





# Contract Monitoring

## Solid Waste

- 2,260 Boom pile requests
- 330 requests for special trash collection
- 9,500 yds of C&D material removed by Boom Truck
- 21,000 tons of mixed garbage and trash removed through the residential service through September 2013



# Contract Monitoring

Example of Garbage & Trash out together



**Proper  
Trash  
Placement**

**Perfect Boom Pile**



# Contract Monitoring

## Trash Bash 2013 Events:

### March 2013: 5th Annual Trash Bash

- 155 Volunteers collected 5,920 lbs of trash
- Covering 20 miles of roadways

### October 2013: Month Long Volunteer Program

- Clean Area of your Choice
- Place Bags Curbside
- Notify Contract Monitoring for Collection
- 985-331-8604



# Contract Monitoring



# Contract Monitoring

## SCP Recycle Program:

- Volunteer Program
- Dumpster Drop Sites throughout SCP
  - Lakewood Elem School
  - Professional Learning Ctr
  - Winn Dixie – Luling
  - Landry Alternative Center
  - Hahnville High School
  - J.B. Martin Middle School
  - West Bank Bridge Park
  - IMTT Field - St Rose
  - East Bank Bridge Park
  - East St Charles Fire Station
  - Montz Park
  - Grand Ridge Golf Park (Future)
- Dumpsters are Serviced Weekly  
on Thursday's



# Contract Monitoring **SCP Recycle Program**





# **Contract Monitoring Street Lights**

# Contract Monitoring

## Street Lights

### Entergy and D&G Electric:

- We monitor both Entergy & the parish contractor which is currently D&G Electric
- 902 service calls received in reference to street lighting



# Contract Monitoring

## Street Lights: Repairs

- 1,300 repairs through Entergy



- 1,495 repairs through D&G Electric





# Contract Monitoring

## Street Lights

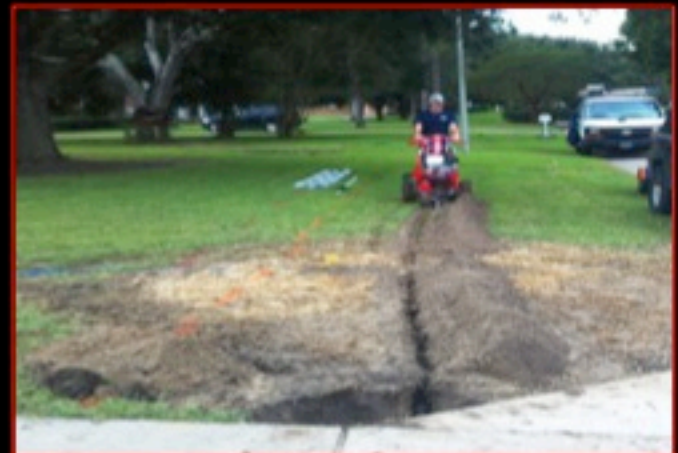
### La One Call :

- 1,600 Dottie makings performed by D&G Electric to date



# Contract Monitoring

## Light Projects





# Contract Monitoring

## Light Projects





# Contract Monitoring Mosquito Control

# St. Charles Mosquito Control

(Contract Thru Dec. 2016)

## Control Measures:

- Larval control is the first defense in any mosquito program.
- To date Mosquito Control Inc. has sprayed in excess of 18 million sq. ft. of floodwater and permanent breeding sites



# St. Charles Mosquito Control

- Ground Adulticiding has resulted in 7,200 miles sprayed by truck. Covering over 263,000 acres.
- These totals thru September already surpass the mandated contractual amount of 250,000 acres per year





# St. Charles Mosquito Control

- Monitored chicken blood and mosquito samples for presence of encephalitis including West Nile Virus.
- Positive West Nile results found in four chicken samples across St. Charles Parish.
- All mosquito samples tested negative





WELCOME TO THE ST. CHARLES PARISH DEPARTMENT OF

# ***Public Works and Wastewater***

# Thank You





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# Thank You





# Contract Monitoring

## Solid Waste (Progressive Waste):

- 5,597 service calls
- 2,737 cart services
- 2,258 Boom pile requests
- 329 requests for special trash collection
- 9,474 yds of C&D material removed by Boom Truck
- 20,803 tons of mixed garbage / trash disposed

